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# MOLLUSCA

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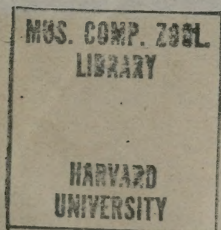
BY

T. A. VERKRUZEN.

IN 1876,

IN THE NEIGHBOURHOOD OF ST. JOHN'S,  
NEWFOUNDLAND,

Including a few Species obtained from the Bay of Fundy.



ST. JOHN'S, N. F. :

J. C. WITHERS, QUEEN'S PRINTER.

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N. B.—In detailing the same, I have followed the arrangement of  
GOULD in his Invertebra of Massachusetts.

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1. *Solen Americanus*, Gould—Harbour of St. John's.  
1 dead Specimen in  
good preservation.
2. *Solecurtus gibbus*, Spengler—Harbour of St. John's.  
A few young individuals.
3. *Glycimeris siligua*, Lam.—Narrows. 4 dead specimens in fair condition.
4. *Mya arenaria*, Linné—Harbour. Young, common;  
old ones, rarer.
5. *Mya truncata*, L.—Harbour. Young, common;  
old ones, rarer.
6. *Thracia truncata*, Brown, (*myopsis*, Beck)—  
Narrows. 5 young and 1 old  
dead specimens.
7. *Montacuta Dawsoni*, Jeffr.—Harbour. Locally  
pretty plentiful.



8. *Saxicava rugosa*, L.—Harbour and outer Bays;  
not scarce.
9.     “     “     *var.*—Harbour and outer Bays;  
not scarce.
10. *Macra solidissima*, Chem. *v. ovalis*, Gould—  
Narrows. 1 young specimen.
11. *Tellina calcaria*, Chm. (*Macoma proxima*, Gray)—  
Harbour. Common.
12. *Axinus* (*Cryptodon*) *Gouldii*—Harbour. Rather  
scarce.
13. *Astarte compressa*, Mont.—Narrows. 2 fine live  
specimens, rare.
14.     “     *castanea*, say—Narrows. 1 valve; and 1  
live specimen from the  
Bank.
15.     “     *crebricostata*, Forbes—Narrows. 1 young  
spec. and 4 valves.
16. *Cyprina islandica*, L.—Bank. Various large  
valves.
17. *Cardium islandicum*, L.—Harbour. Rather scarce.
18.     “     *fasciatum*, Mont.—Narrows. 3 dead spe-  
cimens.
19.     “     (*aphrodite*) *gronlandicum*, Chm.—  
Harbour and Narrows, rather  
scarce, also from the Bank.
20.     “     (*aphrodite*) *gronlandicum*, *var. album*, V.—  
1 specimen from the Bank. The  
valves of this handsome variety  
are of a pale drab and semitrans-  
parent, whilst those of the type  
are variously and prettily mar-  
bled.
21. *Cardita borealis*, *conr. var. St. Johnensis*, Verkr.—  
Harbour and Narrows, not com-  
mon. This variety is distinct  
from the typical form by a broad-  
er and more equilateral shape;



it is not inflected at the lunule below the umbones, and which the latter do not project, as it is more or less the case with the typus; it is finally much smaller, the largest dead adult valves being scarcely half the size of a typical *cardita borealis* from neighboring Southern seas. I am inclined to consider it a good species and would retain the name: *Cardita St. Johnensis*, Verkr.

22. *Cardita borealis*, var.—Narrows, rare. This var. has the shape of the type but not the wrinkles on its strong radiating ribs, but is smooth and of a lighter colour.
23. *Mysilus edulis*, L.—Harbour, common.
24. *Modiola modiolus*, L.—Harbour and outer sea, not scarce.
25. *Modiolaria laevigata*, Gray—Narrows, 1 valve.
26. *Crenella decussata*, Montagu—“ scarce.
27. *Crenella glandula*, Totten—“ and Cuckold Cove, scarce.
28. “ *faba*, Moll—Narrows, scarce.
29. *Pecten islandicus*, Moll—Narrows and great Bank, abundant.
30. “ *tenuicostatus*, Mi. & Ad.—Narrows, 1 valve, and fine specimens from the Bay of Fundy.
31. *Lima elliptica*, Jeffr.—Narrows, 1 valve.
32. “ *subauriculata*, Mont.—Narrows, 1 valve.
33. *Anomia ephippium*, L.—Narrows and outer Bays, sparingly and small.

34. *Anomia ephippium*, V. *acculeata*, gme.—Narrows,  
Valves.
35. *Utriculus Gouldii*, Couth.—Harbour, scarce.
36. *Chiton ruber*, L.—Narrows and outer sea, plentiful.
37. “ *marmorens*, Fabr.—Narrows and outer sea,  
plentiful.
38. “ “ *var. pusulosus*, Verkr.—Narrows ;  
scarce. This variety does  
not show the rectangular  
ribs on the shields, which  
are peculiar to the type, or  
sometimes very faintly only,  
but it is covered over with  
minute pustules, not visible  
to the naked eye.
39. “ “ *var. St. Johnensis*, Verkr.—This  
elegant variety is of a brilliant  
green color, especially when  
alive, and in sculpture inclines  
rather to the preceding variety  
more than to the type, I obtained  
but few specimens.
40. *Chiton albus* Mont.—Narrows and outer sea, pretty abundant.
41. *Tectura testudinalis*, Mull—Small in the Narrows ;  
larger at Petty Harbour.
42. *Lepeta caeca*, Mull—Narrows and outer bays,  
scarce.
43. *Pilidium rubellum*, Fabr. (*Tectura rubella*)—Narrows and outer bays, rather scarce ; small.
44. *Puncturella (cemoria) noachina*, L.—Narrows, &c.,  
scarce.
45. *Molleria costulata*, Moll.—Harbour, middling  
scarce.

46. *Molleria costulata*, Moll.—Harbour, middling scarce.
47. *Margarita cinerea*, Couth.—Narrows and outer sea, scarce.
48. “ *greenlandica*, Mull. (*undulata*, son.)—Narrows and outer sea, abundant.
49. “ *helicina*, Fabr.—Harbour and Narrows, middling plentiful.
50. “ *argentata*, Gould—Harbour and Narrows, not scarce.
51. *Skenea planorbis*, Fabr.—Harbour and Conception Bay, rather abundant.
52. *Rissoa striata*, Adms. var. *ardira*—Quidi Vidi Cove, dead, plentiful.
53. “ *arenaria*, Mi. and Adms.—Harbour, pretty abundant.
54. “ *globulus*, fide, Jeffreys—Harbour, scarce.
55. *Lacuna divaricata*, Fabr.—Harbour, in deep water plentiful.
56. “ “ *var. quadrifasciata*—Harbour, in deep water plentiful.
57. “ “ *var. pellucida*—Petty Harbour, rather scarce; almost transparent.
58. “ “ *var.*—A small dark *litoral* variety, Conception Bay.
59. *Litorina rudis*, Maton—Conception Bay, rather plentiful.
60. “ *obtusata*, L. (? v. *palliata*, say)—Conception Bay and Petty Harbour. Do not seem to differ from the European specimens of *obtusata*.
61. *Scalaria gronlandica*, Chm.—1 large dead well preserved specimen in

Cuckold Cove, and  
one fragment, Nar-  
rows.

62. *Acirsa Eschrichti*, Holboll—1 young spe., Narrows.
63. *Turretella acicula*, Stimps—Harbour, several dead specimens.
64. *Menestho striatula*, Couth—Narrows, 1 dead specimen.
65. *Velutina lævigata*, L.—Narrows, scarce.
66. *Natica affinis*, Gml, (clausa, Sow)—Narrows, scarce.
67. “ (*amauropsis*) *islandica*, Gmel.—Outer bay, 1 dead specimen.
68. “ *immaculata*, Totten—Narrows, 1 dead specimen.
69. *Bela turricula*, Mont.—Harbour, 2 small specimens, rather stunted.
70. “ “ *var. rosea*, say—Harbour, not scarce, fair size.
71. “ *Trevelyana Turl.* (*v. rosea*)—Harbour, 1 good specimen, tinted.
72. “ “ *var. Smithii*, Jeffr.—Harbour, not scarce, peculiarly interesting.
73. “ *violacea*, Mi. and Ad.—Harbour, plentiful.
74. “ *harpularia*, Couth—Harbour, 1 dead specimen.
75. “ *pyramidalis*, Moll—Harbour, 1 fine live specimen.
76. “ *Pingeli*, Moll—Harbour, 1 young specimen.
77. *Purpura lapillus*, L.—Plain and striped. Harbour and C., plentiful.
78. *Trichotropis borealis*, Sow. *var. St. Johnensis*, Verkr.—Harbour and Narrows. This fine variety is distinguished from the European type by a larger



size and stronger texture, *strong* bright yellow brown Epidermis, a more projecting outer lip, and is frequently coloured within of a lively brownish yellow. It may be called the handsomest Shell of St. John's Harbour.

79. *Buccinum undatum*, L.—Harbour and outer Bays, not abundant, a close approach to the European form of the North Sea; also the handsome American typus with golden throat from the Bay of Fundy.

80.     "             "     *var. A.*—Bank, (probably Bucc. Donovanii, Gray), 2 specimens.

81.     "             "     *var. B.*—Bank. } These three

are similar to each other, yet not alike; they differ much from the European and American type; having but one specimen of each, I withhold an opinion until more are obtained.

82.     "             "     *var. C.*— " }

83.     "             "     *var. D.*— " }

84.     "             ? *nov. spe.*—Bank, (? *perhaps* B. sericatum, Hancock.)

85. *Fusus* (*Neptunea*) ? *spe.*—Bank.  
 86. “ *decemcostatus*—Bank, 1 live but unfortunately broken specimen. Verte. A close approach to the European form of the North Sea.  
 87. *Fusus lyratus*, Martyn.  
 88. *Natica heros*, Say.  
 89. “ *triseriata*, Say.  
 90. *Yoldia myalis*, Couth.  
 91. *Mactra solidissima*, Chem. v.  
 92. *Venus* ? *notata*, Say.

} These last six species only from the Bay of Fundy, Nova Scotia.

Besides the above Mollusca, I obtained an interesting variety of Crustacea, Tunicata, Ectinodermata, Actinozoa, Boltenia, Annelida, &c., in a great measure from the Bank, and some, *especially* the Crustacea, also from St. John's Harbour, the Narrows and outer Sea. These are still under investigation, not being my speciality.

Frankfurt, <sup>a</sup>/M., May, 1877.

T. A. VERKRUZEN.



46. *Mölleria costulata*, Moll. var. *glabra*, Verkr.—

Harbour, scarce. Instead of the strong ribs of growth of the type, this var. is quite smooth; intermediates have faint ribs.











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